

"Device for continuously measuring deformations in a tyre during the travel movement of a motor vehicle "

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# ABSTRACT

5 A device (20) for continuously measuring deformations in a tyre  
(1), which is mounted on a rim (5), comprises at least one first  
emitter (7) of a first direct light beam (8), at least one first optical  
10 sensor (9) of the luminous intensity and at least one first reflecting  
element (13; 113) applied to a first portion (21) of an inner surface  
(4) of the tyre (1); the first emitter (7) is mounted on the rim (5) and is  
capable of sending the first direct light beam (8) towards the first  
reflecting element (13; 113); the first optical sensor (9) is also  
15 mounted on the rim (5) and is capable of receiving a first reflected  
light beam from the first reflecting element (13; 113), measuring a  
first prechosen physical parameter associated with the first reflected  
light beam and providing a first signal representing the deformation  
affecting the tyre (1) along the first surface portion (21) during one  
revolution of the tyre (1). (Fig. 1)

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